

US Army Corps
of Engineers
New York District

Briefing on NY/NJ Harbor Estuary Deepening Projects and Opportunities for Consolidation of Deepening Activities



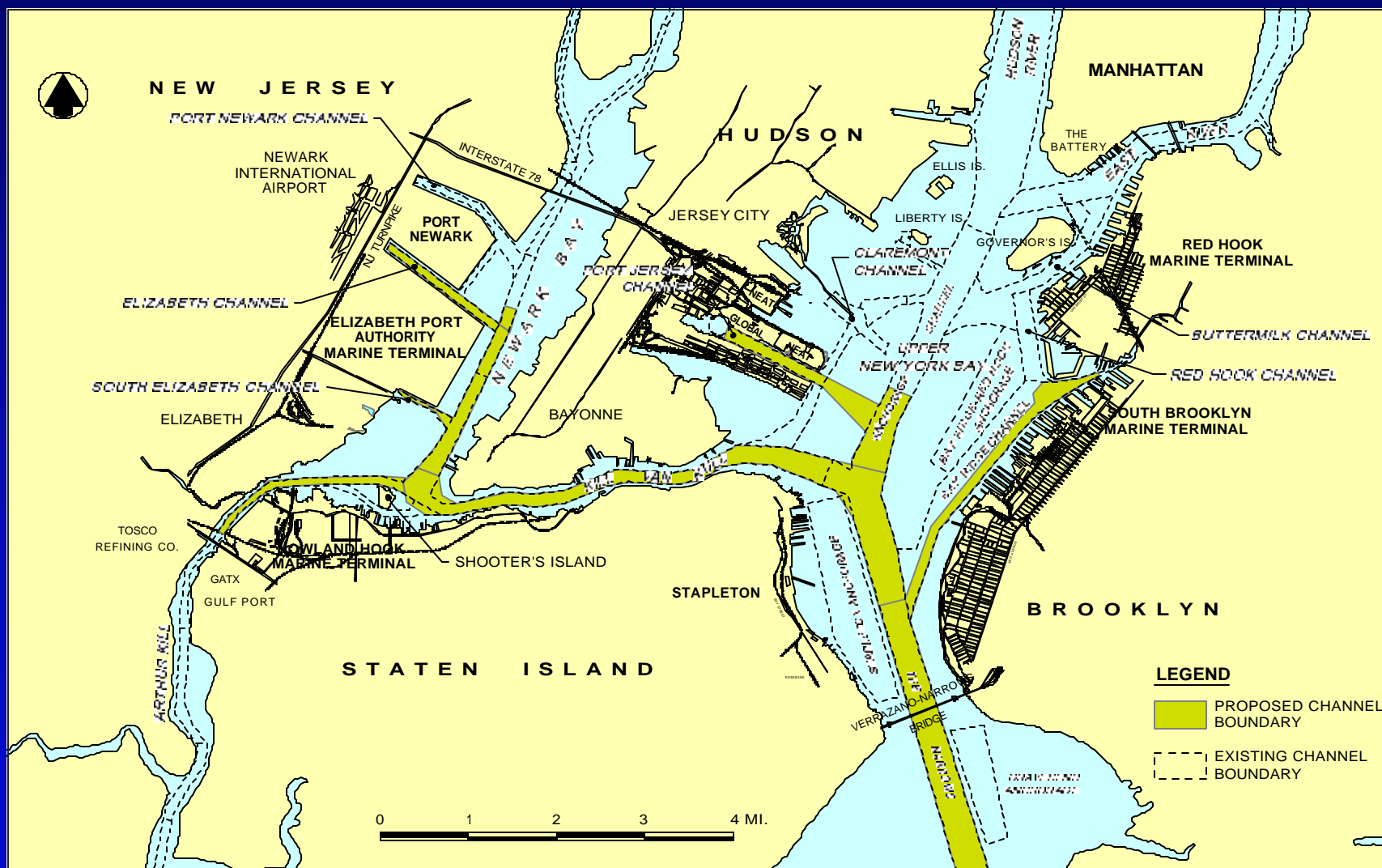
We Can See the Future From Here...
December 2002



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The Port of New York and New Jersey

Major Navigation Channels and Container Terminals

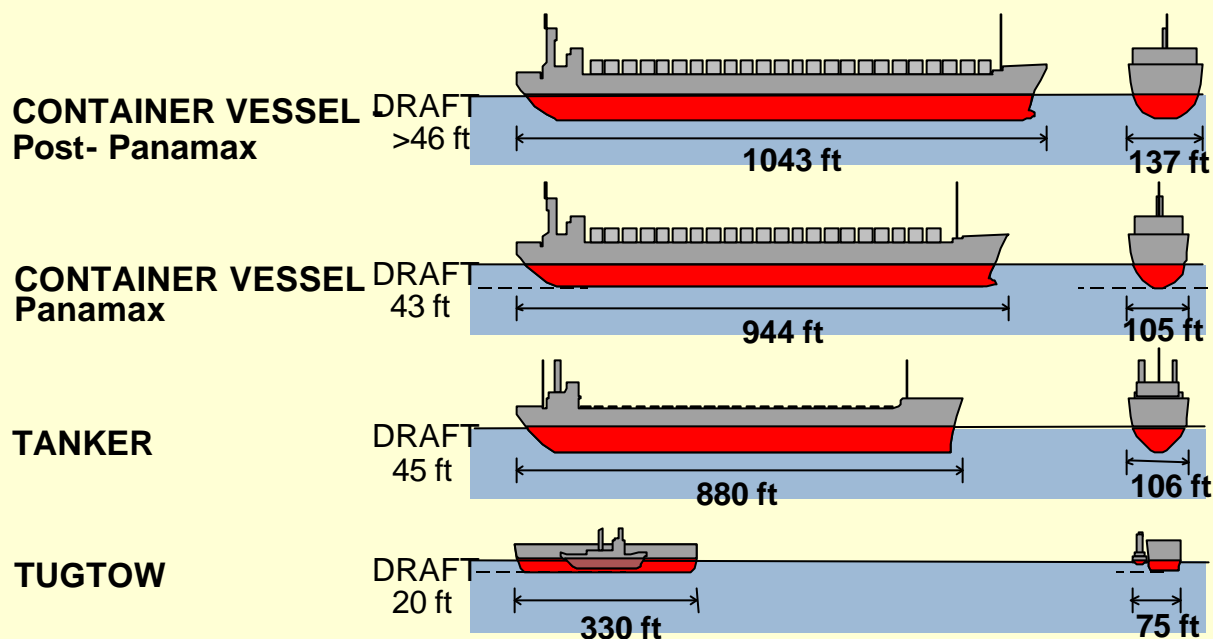


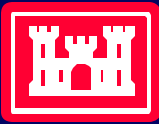


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Problem Identification

Existing channels do not provide sufficient depths for the current and projected fleet





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Partnerships

Unique agency partnerships have interfaced to address challenging environmental, navigation, social and engineering issues allowing projects to move forward on schedule and within budget

- **USACE**

THE PORT AUTHORITY OF NY & NJ



- *The Port Authority Of New York and New Jersey*

- **USEPA**



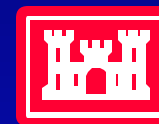
- **NMFS**

- **USCG**

- *State of New York (ESDC, NYSDEC, NYSDOS)*

- *State of New Jersey (DOT-OMR, NJDEP)*

- *City of New York (EDC, DEP)*





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Kill Van Kull & Newark Bay Channels (45 foot Project)

- **DESCRIPTION:** Channel deepening from 40 ft to 45 ft.

- **STATUS of NINE CONSTRUCTION AREAS:**

- ◆ Completed: Areas 1, 2, 3, 4a & 7

- ◆ On-Going Work:

- ◆ Area 6 (Feb 03 Completion)

- ◆ Area 5 (Feb 04 Completion)*

*Note: Includes 50' Permitted work

- ◆ Planned Contract Awards

- ◆ Area 8 – Spring 03

- ◆ Area 4b- Fall 03**

** Note: Possible Consolidation Opportunity

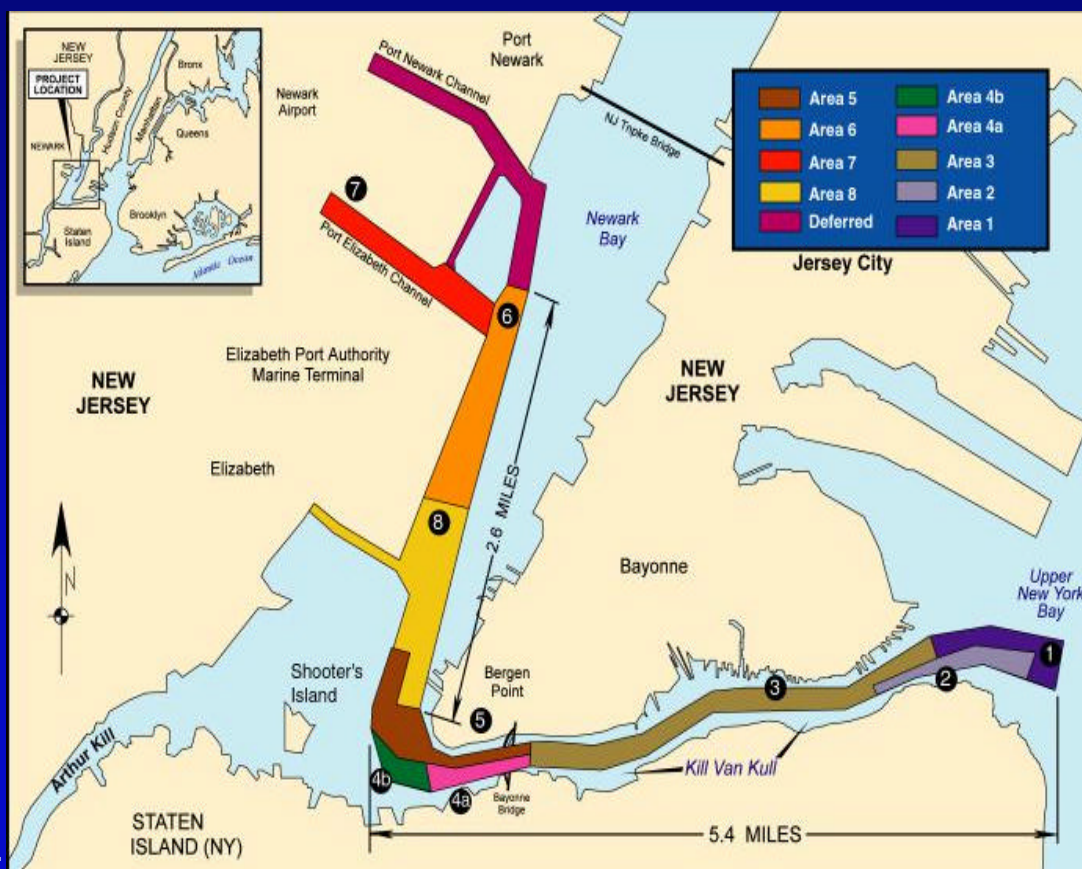
- **PLANNED COMPLETION:** Dec 2004

- **TOTAL PROJECT COST:** \$733 million

- **SPONSOR:** Port Authority of NY & NJ

- **POINT-OF-CONTACT:** Harold Hawkins P.E.

Project Manager, 212-264-9092



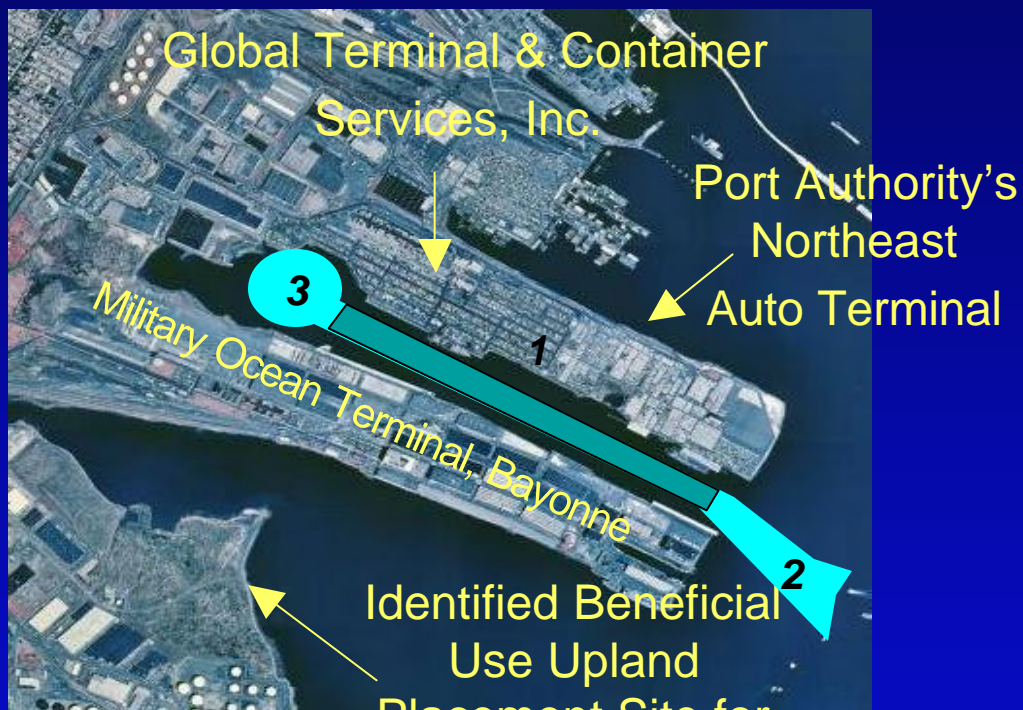


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Port Jersey Channel

(41-foot Project)

- **DESCRIPTION:**
 - ◆ Channel Deepening from 35/38 ft to 41 ft.
- **STATUS:**
 - ◆ Project Cooperation Agreement – July 02
 - ◆ Project Construction (Area 1) – Dec 02
- **PLANNED COMPLETION:** 2005
- **TOTAL PROJECT COST:** \$119 Million
- **SPONSORS:** New Jersey Office of Maritime Resources (primary) & Port Authority of NY & NJ (limited sponsor)
- **POINT-OF-CONTACT:** Bryce Wisemiller, Project Manager (212) 264-5797



Identified Beneficial
Use Upland
Placement Site for
first contract

(approx 546 kCY)*

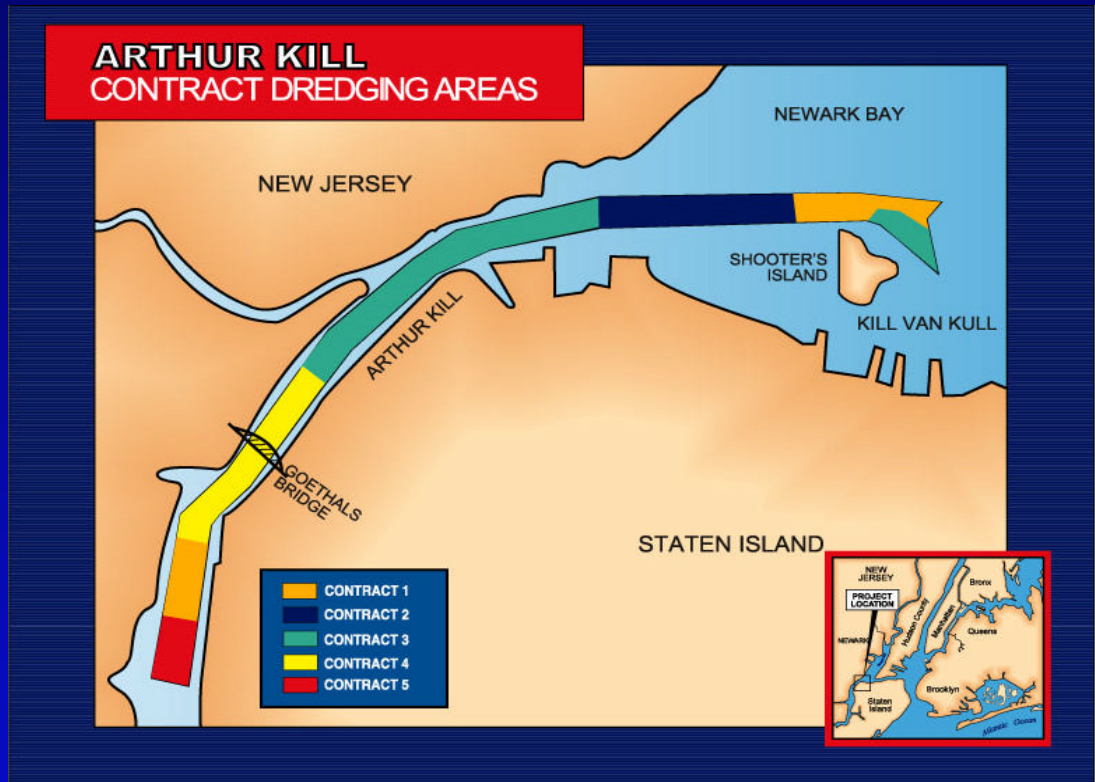
*(Glacial Till/Clay will go to
HARS if suitable)



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Arthur Kill Channel Howland Hook Marine Terminal (41/40 foot Project)

- **DESCRIPTION:**
 - ◆ Channel Deepening from 35 ft to 41/40 ft
- **STATUS:**
 - ◆ Project Cooperation Agreement – Jul 02
 - ◆ First Construction Contract Award anticipated – Jan 03
 - ◆ Project Construction – Feb/Mar 04
- **PLANNED COMPLETION:** 2006
- **TOTAL PROJECT COST:** \$402 Million
- **SPONSOR:** Port Authority of NY & NJ
- **POINT-OF-CONTACT:** Michael Millard, Project Manager, 212-264-2054



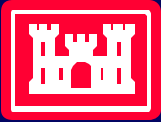


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New York & New Jersey Harbor (50-foot Project)

- **DESCRIPTION:** Deepen the Ambrose Channel to 53 ft, the Anchorage, Bay Ridge, Port Jersey, Kill Van Kull, Newark Bay and Arthur Kill to 50 ft (52 ft in rock)
- **STATUS:**
 - ◆ WRDA Authorization – Dec 2000
 - ◆ Design Agreement Executed with Port Authority – Jan 01
 - ◆ Consolidation efforts being integrated into overall plan
 - ◆ PCA execution schedule – May 04
 - ◆ Construction scheduled to begin in FY 2004
- **FUNDING:**
 - ◆ Total Project Cost: \$1.8 billion
 - ◆ Total PED Cost: \$20 million
- **SPONSOR:** Port Authority of NY & NJ for Engineering, Design and Construction
- **POINT-OF-CONTACT:** Tom Shea, Project Manager, 212-264-5570



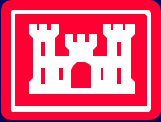


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Consolidation of Harbor Deepening Activities

Challenge: to develop a construction sequence and strategy to combine certain dredging activities to expedite the achievement of 50' deep channels leading to major container terminals, while at the same time meeting customer commitments, reducing overall project costs and protecting relevant public interests and the environment.





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Congressional Direction

From Conference Report Language, Energy and Water Development
Appropriations, FY 2002:

The conferees are aware of the urgent need to facilitate efficient construction of improvements for New York and New Jersey Harbor to meet the needs of navigation interests and save significant Federal and non-Federal resources.

Therefore, the conferees direct the Secretary of the Army to combine the previously authorized [KVK, AK, PJ and HDP] into a single project designated the New York and New Jersey Harbor Deepening Project, ... The Secretary of the Army is directed to use these funds to continue construction of the combined New York and New Jersey Harbor Project to the depths authorized in the Water Resource Development Act of 2000.”



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Consolidation Opportunities

- **Vertical Consolidation:**

- ◆ Combine existing projects into a single deepening effort (Drill and blast one time straight down to 50')
- ◆ Increases productivity; reduces overall time
- ◆ Decreases mobilization costs, supervision costs
- ◆ Environmental and Social benefits
- ◆ Channels for Consideration:
 - ◆ Kill Van Kull
 - ◆ Port Jersey
 - ◆ Arthur Kill

- **Horizontal Consolidation**

- ◆ Enlarges the geographical size of contract areas, thereby reducing the total number of contracts
- ◆ Increases productivity; some time savings
- ◆ Decreases mobilization, supervision and administration costs
- ◆ Provides additional flexibility in navigational safety
- ◆ All Channels Considered

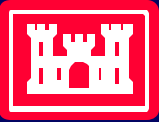




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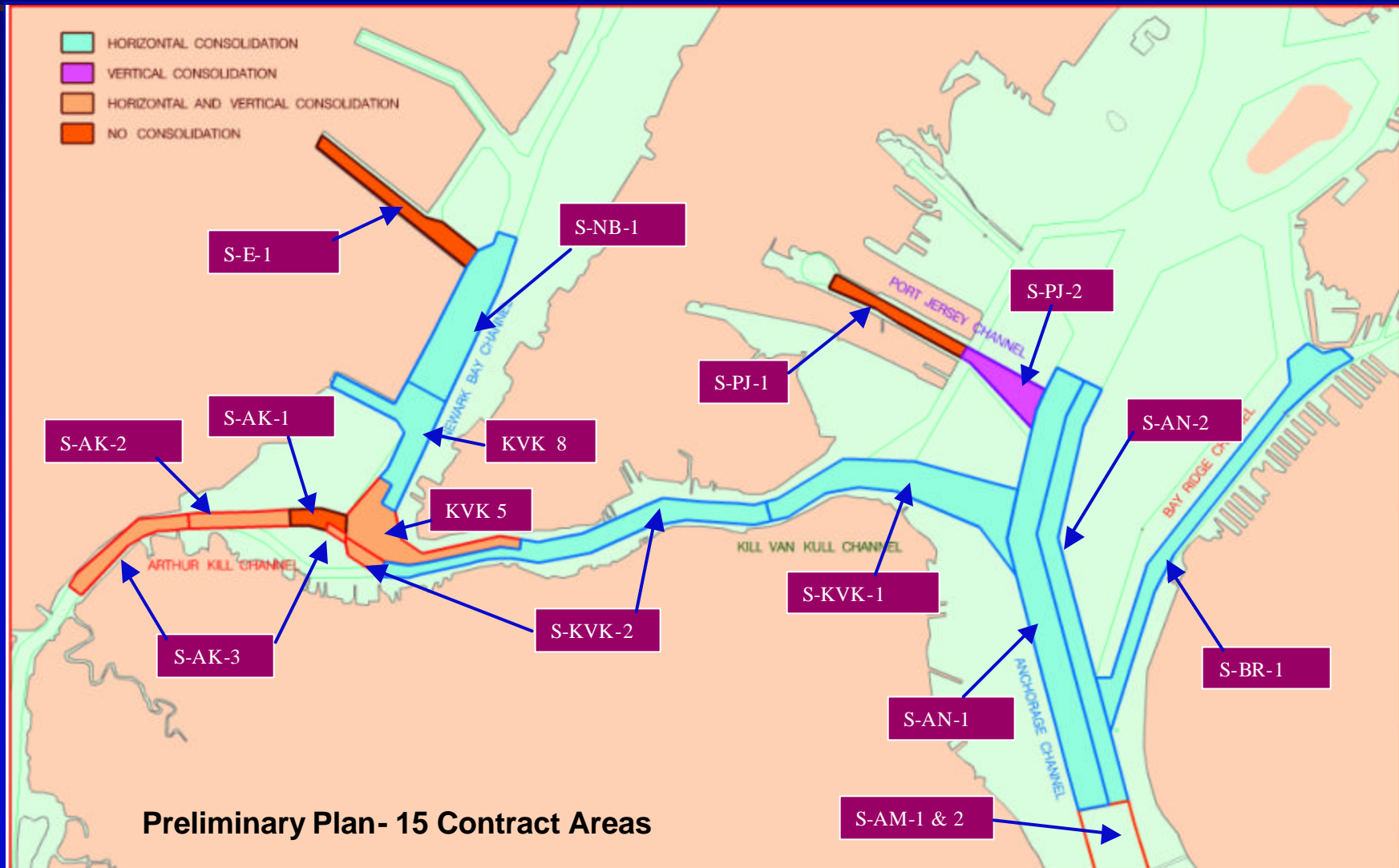
Preferred Consolidation Plan

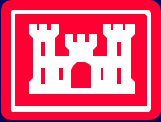
- KVK Area 5 as a PANYNJ permit.* **(Work Ongoing)**
- Port Jersey Area 2 35 ft to 50 ft (as a permit).
- KVK area 4b (40 ft to 50 ft) combined with KVK Area 4a (45 ft to 50 ft) and part of KVK Area 3 (45 ft to 50 ft).
- Horizontal consolidation(reduction in contract areas) of the Ambrose, Anchorage and Bay Ridge Channels
- Estimated Cost Savings: Up to \$100M
- Preliminary total schedule savings: 2 years



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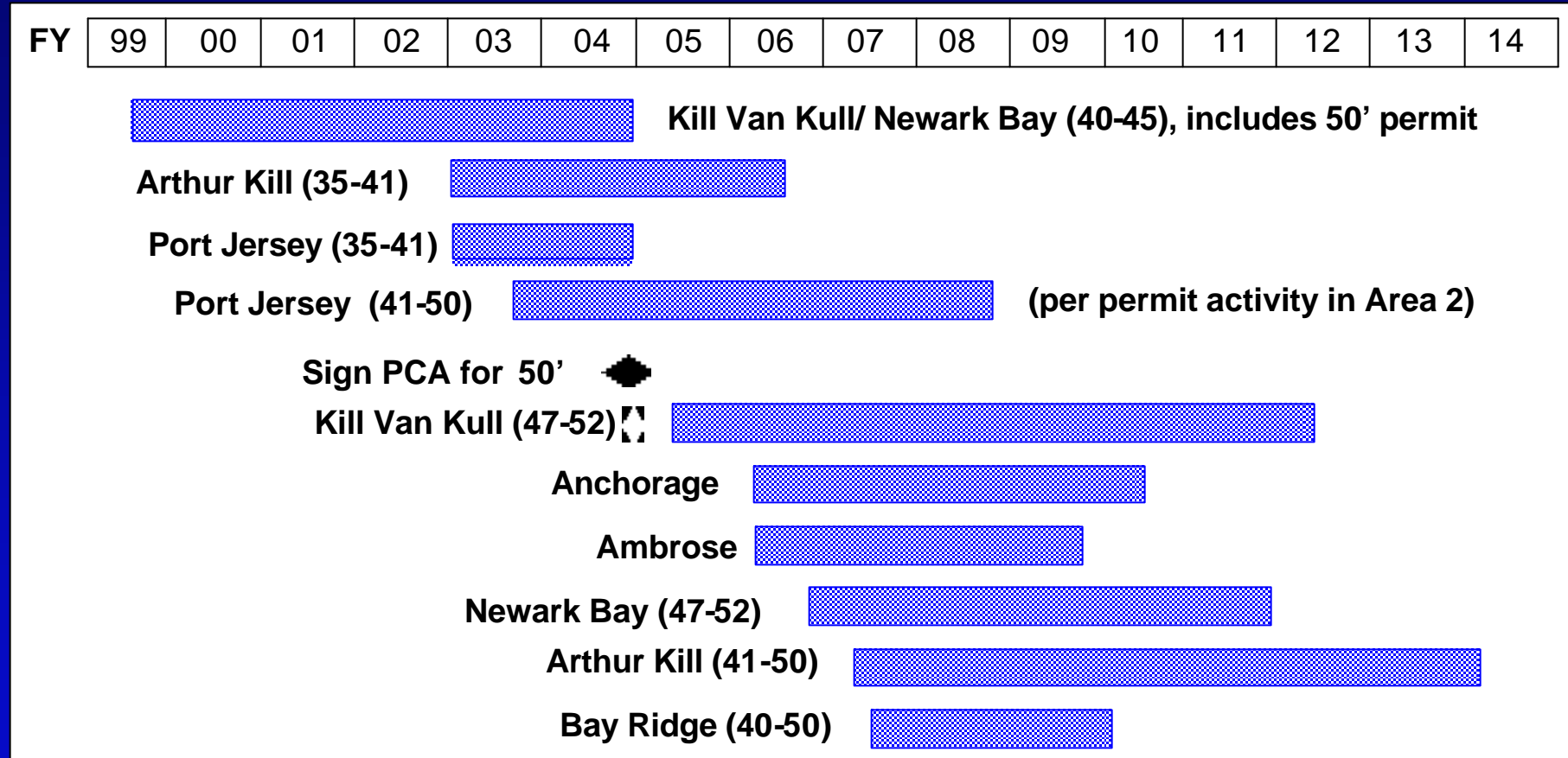
Preferred Consolidation Plan





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Preliminary Construction Schedule to Achieve a 50-Foot Deep Port



Note: Some components of the KVK 45', AK 41' and PJ 41' projects may be delayed initially to facilitate implementation of 50' consolidation opportunities.

A Vision for the NY & NJ Harbor Estuary



Goal: A thriving economic engine that is environmentally friendly, technologically advanced and responsible to the local/regional community



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Discussion



Find this briefing on the NY District Web site at
www.nan.usace.army.mil/harbor